Approved For Release 2003/05/14: CIA-RDP78S02149R000200110006-1

- 1. All-weather road A term used frequently in mapping to indicate a road which is passable throughout the year with no appreciable loss in capacity: "All-seasons" is considered to be more definitive where this type of classification is desired, since weather conditions such as cloudbursts, flooding, and snow blockage can completely close roads for varying periods. The preferred method of classifying roads, however, is by surface type, which is related directly to capacity.
- 2. <u>Limited all-weather road</u> Same as all-weather road except that capacity is reduced considerably during bad weather.
- 3. <u>Fair-weather road</u> A term used frequently for mapping to indicate a road which quickly becomes impassable in bad weather and which cannot be kept open by normal maintenance. Since impassability is more closely related to season than to weather, the term "seasonal road" provides a better description. Classification by surface type is preferred, however, since this is related directly to capacity.

DIA review(s) completed.

Approved For Release 2003/05/14 : CIA-RDP78S02149R000200110006-1

Requirement 2. Route Capacities (Reference: Section II.C. of Terms of Reference)

- 1. Provide present dry and wet season route capacities for North Vietnam and Laos as follows:
 - a. Routes 1A and 15 south of the Thanh Hoa area.
- b. All routes between Vinh or the coast and the Tan Ap area on route 15.
- c. All connections between routes 15 and 101 and the routes in Laos.
- d. Laotian routes 12, 23, 911, 9, 92, 921, 922, 923, 96, 165, and routes south of 165.
- e. Any other routes considered to be significant in supplying Laos or South Vietnam.
- 2. What effect did the US/GVN air strikes have on routes capacities in North Vietnam during 1965? What effect have the recent interdiction efforts had on route capacities in Laos? What is the present throughput capacity of the Laotian supply route, taking recent interdiction efforts into account?
- 3. What effect will present construction activities have on route capacities in North Vietnam and Laos during 1966? What will be the probable throughput capacity of the Laotian supply route at the end of 1966,

Approved For Release 2003/05/14: CIA-RDP78S02149R000200110006-1

assuming the same level of US/GVN interdiction as in 1965? How much of this route will be all-weather?

- 4. Provide an estimate of the present theoretical capacity of the sea route from North Vietnam, taking into consideration current Market Time operations.
- 5. Provide present dry and wet season capacities of the roads in Cambodia that approach the border of South Vietnam. How much tonnage could be moved over these routes without active, overt Cambodian cooperation?

Deadline to CIA: 28 January 1966

Requirement 2. Route Capacities

NORTH VIETNAM

Highway Route Number	Highway Route Segment	*April Max. Ca Dry Season			p. Wet	Project 66 Max. Dry Season		Remarks
1 A	Than Hoa - Rt. 7A 7A Jet - Vinh Vinh - Ha Tinh Ha Tinh - SVN Bdr	3800 1200 850 750	1100 250 100 100	1350 1200 850 850	250 250 100 100	*	*	* Significant improvements to main coastal Route 1A are not expected. Development of an interior alternate north-south artery is probably underway to alleviate present reliance on Rt. 1A.
15	Bai Thuong - Nghia Hung Nghia Hung - Rt. 7A 7 Jct - Vinh Vinh - Xom Con Cau (via Rt. 8 to Dia Loi) Dia Loi - Xom Con Cau Xom Con Cau - Mu Gia Pass	550 550 750 450 800 600	100 100 150 100	500 550 750 450 600 450	100 100 150 100	750 750 750 750 750 750 600	150 150 150 150 100	** Major portions of Route 15 will probably be integrated into the alternate inland north-south artery.
7	Rt. 1A - Vat Giav Vat Giav - Cua Rao Cua Rao - Laos Bdr	1050 700 600	200 150 100	900 700 450	200 150 100	900 700 500	200 150 150	
8	Linh Cam — Rao Qua Rao Qua — Keonua Pass	1100 450	350 100	700 400	150 100	700 500	150 150	
.* See	AP-1-335-4-1-65 INT				SE	C RET		

Requirement 2. Route Capacities

Approved For Release 2003/05/16 CHERDP78S02149R000200110006-1

NORTH VIETNAM

NORTH VIETNAM

Highway Route Number	Highway Route Segment			Present Max. Cap Dry Season	p. Wet	Projecte 66 Max. Dry Season	Cap. Wet	Remarks
Number	OCEMONS							a (1 landian) and offined
75	Ke Mung - Ban Na Khom			50	0	300	100	Portions of route (central portion) undefined.
76	Ban Na Khom - LV Bord			50	0			Central portion undefined. Intended development undiscernable.
152	Ha Tinh - Dia Loi	800	150	800	150	800	150	
102	Rt. 101 - Laos Bdr	300	0	150	1.50	300	150	
103	Rt. 101 - Xom Bang Xom Bang - Rt. 102	550 50	100 0	550 150	100	550 300	100 100	
116	Rt. 15 - Ban Co Ba Ban Co Ba - Ban Chieng	700 600	150 100	400 600	0 100	600 600	100 100	
118	Rt. 1 - Bai Thuong Bai Thuong - Muong Piet	750 400	250 0	750 400	250 0	750 400	250 0	
127	Rt. 15 - Laos Bdr	600	100	600	100	600	100	Maintained in 1965 as the main supply route to Laos border and Jct Rt. 65, Laos, in effort to keep PAVN/PL troops in Sam Nena area resupplied.
* See	AP-1-335-4-1-65 INT							
•						SECRE		

Approved For Release 2003/05/14 : CIA-RDP78S02149R000200110006-1

Approved For Release 2003/05/5 PDP78S02149R000200110006-1

NORTH VIETNAM

Requirement 2. Route Capacities

Highway Route	Highway Route Segment				p. Wet	Project 66 Max. Dry Season		Remarks
Number 153	Jct Rt. 8 - Laos Bdr	Trail	Trail	Trail	Trail			5-mile track west of Jct Rt. 15 under improvement in late 1965 and January 1966. Surface width 16-18 ft., improved earth. Remainder of route is only a 6 ft. track deteriorating to a trail 5 mi. east of Laos border.
154 193 196	Rt. 15 - Laos Bdr	50 300 50	0 0 0	50 50 50	0 0	300	100	Possibly motorable, connecting waterway at Lang Mo and Laos border. Probable future connection with Laos Rt. 911.
702								Trail/track only. Development into motor route expected but extent unknown.
* See	AP-1-335-4-1-65 INT							
•					SE	CRET		

Approved For Release 2003/05/14 : CIA-RDP78S02149R000200110006-1

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Requirement 2. (Con't)

LAOS

Highway Route Number	Highway Route Segment	3		Present Max. Cap Dry Season	p. Wet	Project 66 Max. Dry Season		Remarks
9	SVN Bdr - Song Cua Lo Riv	800	150	400 600	0 100			a. SVN - Ban Dong; 14 mi.; seasonal not used for thru traffic; poor condition. b. Ban Dong - Song Cua Lo Riv; 13 mi.; limited all-season; fair condition.
	Song Cua Lo Riv - Rt. 23	550	50	550	50	750	150	When gravel surface is improved to fair condition.
12	SVN Bdr - Rt. 8	600	100	450	100			Gravel surface deteriorated to improved earth.
23 .	Rt. 12 - Rt. 9	400	0	500 306	100			a. Rt. 12 - Rt. 11; 16 mi.; limited all-season, improved earth and log-corduroyed surface; fair condition. b. Seasonal; no thru traffic reported during the 1965
	Rt. 9 - Se'Bang Hieng Riv Se'Bang Hieng Riv - Jct Rt. 16 Jet Rt. 16 - Ban Thateng Ban Thateng - Jct Rt. 232 Jct Rt. 232 - Rt. 13	150 400 700 700 3800	0 0 150 150 1100	150 400 700 700 3800	0 0 150 150 1100			rainy season.
92	SVN Bdr - Song Ben Ha Riv Song Ben Ha Riv - Rt. 9 Rt. 9 - Jet 921 Jet 921 - Jet 922 Jet 922 - Jet 162	150 50 500 500 400	50 0 100 100 100	150 150 400 400 150 90	50 50 100 100 50	400	100	New Alinement joins Rt. 9 Vic Sepone. Leaves Rt. 9 Vic. Bang Dong; limited all-season. Limited all season. a. Rt. 922 - Rt. 923; under repair in January 1966. b. Rt. 923 - Rt. 162 appears abandoned; traffic thru Rt. 96.
			>		SECRE			

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Requirement 2. (Con't)

Highway Route Number	Highway Route Segment	*April Max. Ca Dry Season		Present Max. Ca Dry Season	p. Wet	Project 66 Max. Dry Season		Remarks
96	Rt. 923 - Rt. 165 Rt. 165 - Rt. 16 - CA/LA border			Est.200 Est.50	Est.50 Est.0	400 400	100 100	Under construction as of January 1966. Under improvement, possibly jeepable as of January 1966.
165	Rt. 16 - SVN Bdr	50	0	100 200	0 50	400	100	a. Rt. 16 - Rt. 96, poor condition, seasonal. b. Rt. 96 - SVN; fair condition, seasonal.
911	Rt. 23 - Rt. 91			Est.200	Est.10	500	100	Rt. under construction and improvement January 1966; Limited all season; alternate to Rt. 23.
921	Rt. 92 - SVN Bdr	200	50	50	o			Traffic possibly proceeding via Rt. 922; deteriorated to 6-8 ft. track.
922	Rt. 92 - SVN Bdr	100	0	200	50			Limited all-season; surface improved by log-corduroy method.
923	Rt. 92 - Ban Tampril	50	0	400 50	100			a. Rt. 92 - Rt. 96; 4 mi.; improved in conjunction with Rt. 96. b. Rt. 96 - Ban Tampril; jeepable track.
16	Jct Rt. 23 - Attopev Attopev - Muong Cao Muong Cao - SVN Bdr	400 500 50	0 0 0	400 500 50	0 0 0			Jeepable track.
167	Rt. 16 - Attopev Old (YB 0052)-(YB 0837) Attopev Old - YB 1945 YB 1945 - Jct Rt. 16 (YB 4431)			450 650 50	8			Bypass of the Attopev Conclave; 11 mi. Improved earth in poor condition; 7 mi. Jeepable track; 12 mi.
* See					SECRE			

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Requirement 2. (Con't)

CAMBODIA

Highway Route Number	Highway Route Segment			p. Wet	Project 66 Max. Dry Season		Remarks
1	Phnom Penh to S.V. border		3600	1550	No cha	nge	
7	Skoun to Snoul		3650	1550	**	17	
78	Phumkrek to S.V. border		900	100	"	17	
13	Laos border to S.V. border		900	300	***	11	The controlling section extends from Snoul to S.V. border; from Snoul to Laos border, cap. is 3650/1570.
19	Jct Rt. 13 vic. Stung Treng to S.V. border		700	250	11	11	
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Requirement 2. (Con't)

NORTH VIETNAM

*April 1965 ${\tt Present}$ Projected Dec Waterway Waterway Max. Cap.
*Dry *Wet Max. Cap. Dry Wet 66 Max. Cap. Dry Wet Route Route Number Segment Season Season Season Season Season | Season Remarks Song Chu Mouth of Song Chu - Bai Thuong 50 Bai Thuong - Samnuea, Laos 25 2000 S.T.P.D. 250 S.T.P.D. Song Ca Benthuy - Tuong Que 2000 S.T.P.D. 250 S.T.P.D. Tuong Que - Tri Le Perenhially Perennially Tri Le - Cau Rao 0 50 50 Sau Song Ca Riv - Houng Khe Song 25 2000 25 2000 Houng Khe - Bai DVC Thon 25 S.T.P.D. Perennially Ngan Tonkin Gulf - Than Ha Kien 1000 2500 1000 2500 Than Ha - Luat Son Giang 25 50 25 50 Ben Xe Confluence of Ben Hai Riv -50 S.T.P.D. Perennially Ben Quang Song Ben Hai/Rao Mouth of Song Ben Hai-Ban Tham 1000 2000 1000 2000 Ban Tham - Bo Ho So 50 150 150 Thanh * Dry season denotes low water "Wet season denotes high water

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Requirement 2. (Con't)

LAOS

	The second secon	*April	1965	Present		Projected Dec		
Waterway	Waterway	Max. Ca		Max. Ca		66 Max.		
Route	Route		Wet *	Dry *		Dry *	Wet *	
Number	Segment	Season	Season	Season	Season	Season	Season	Remarks
Se Bang Fai	Mekong Riv - Bang Dang Bang Dang - to Rt. 23 Channel	50 25	500 50	50 25	500 50			
Se Bang Hleng	Overpass Mekong Riv - Ban Nathon Ban Nathon - SVN Bdr	50 50	500 S.T.P	50 D. Peren	500 nially			
Se Pone	Confluence with Se Bang Hleng - SVN Bdr	50	500	50	500		·	
Se Kong	Cambodia - Waterfall N.E. of Ban Phone	25	250	25	250			
	Waterfall - An Ling	25	50	25	50			
	son denotes low water son denotes high water			·				
					SE	RET		

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Requirement 2. (Con't)

CAMBODIA

Waterway Route	Waterway Route Segment			Present Max. Ca Dry* Season	Wet*	Project 66 Max. Dry* Season	Cap. Wet*	Remarks
Number Srepok (Ea Krong)	Stung Treng RVN border	25STPD		25STPD	50STPD	25STPD	50STPD	
Ea Hleo/ IA Meur	Srepok to RVN border	_	25STPD		25STPD		25STPD	
Ya Drang	Srepok to RVN border	25STPD	50STPD	25STPD	50STPD	25STPD	50STPD	
Se San	Srepok to RVN border		25STPD		25STPD		25STPD	
Se Kong	Stung Treng to Laotian border	25STPD	250STPD	25STPD	250STF	D 25STPD	250STPD	
* Dry sea	son denotes low water son denotes high water							
Wet sea	son denotes urgu water				SEC	REI		
1 , ·	•							